

SANITARY MAIN AND WATER MAIN SEQUENCE OF CONSTRUCTION

1. INSTALL THE ENTIRE PROPOSED SEWER MAIN AND SEWER SERVICE WYES, SERVICE LINES AND CAPS.
2. WHERE THE NEW SANITARY MAIN IS INSTALLED LESS THAN 5 FEET HORIZONTALLY FROM THE EXISTING WATER MAIN, WHICH IS TO BE ABANDONED WHEN THE NEW WATER MAIN IS PUT INTO SERVICE, (SMH A-4 THROUGH SMH A-15 AND SMH A-17 THROUGH SMH A-19) THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH (WCDH) SHALL BE NOTIFIED IN WRITING 48 HOURS IN ADVANCE TO ALLOW FOR PERIODIC OBSERVATION INSPECTIONS OF THE NEW SANITARY SEWER MAIN INSTALLATION BY A REPRESENTATIVE OF WCDH PRIOR TO TRENCH BACKFILLING.
3. COMPLETE SUCCESSFUL TESTS OF THE SEWER MAINS AND MANHOLES (ENTIRE SYSTEM COMPLETE) AND OBTAIN CERTIFICATION OF CONSTRUCTION COMPLIANCE FROM THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH.
4. BEGIN ACTIVATION OF NEW SEWER MAIN WITH THE CONNECTION OF SANITARY SERVICES ON FARRINGTON ROAD NEXT TO THE INTERSECTION WITH NORTH RIVERSIDE DRIVE (NY 9A).
5. CONTINUE WITH THE REMAINING SANITARY SERVICE CONNECTIONS PROCEEDING UP GRADIENT ON FARRINGTON ROAD AND HUNTER PLACE TO COMPLETE ALL SERVICE CONNECTIONS.
6. WHEN ALL SERVICE CONNECTIONS ARE COMPLETE, ABANDON THE EXISTING SANITARY MAIN IN ACCORDANCE WITH THE LATEST EDITION OF "RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES".
7. INSTALL THE ENTIRE PROPOSED WATER MAIN (A K-CRETE ENCASUREMENT SHALL BE INSTALLED ON THE WATER MAIN FROM STATION 8+74 THROUGH STATION 21+48), APPURTENANCES, SERVICE LINES AND CURB STOPS.
8. CLOSE 8" GATE VALVES #1 AND #7 ON THE NEW LINE AT EACH MET-TAP (NORTH RIVERSIDE DRIVE AND OLD POST ROAD NORTH), THE EXISTING 6" GATE VALVE #A ON PALMER AVENUE AND THE NEW 6" GATE VALVE #3 AT THE INTERSECTION OF FARRINGTON ROAD AND HUNTER PLACE.
9. PRESSURE TEST THE ENTIRE NEW WATER MAIN (SEE NOTE 12).
10. UPON ACHIEVEMENT OF ACCEPTABLE PRESSURE TEST RESULTS, DISINFECT THE ENTIRE NEW WATER MAIN (SEE NOTE 11). FLUSH LINE AS DIRECTED BY VILLAGE ENGINEER.
11. SUBMIT ACCEPTABLE PRESSURE TEST AND BACTERIOLOGICAL ANALYSIS RESULTS TO THE WCDH AND OBTAIN CERTIFICATION OF CONSTRUCTION COMPLIANCE.
12. CONNECT THE NEW WATER SERVICE LINES AND OPEN EACH GATE VALVE NOTED IN ITEM 8 AND EACH CURB STOP TO ACTIVATE THE NEW MAIN AND SERVICES.
13. ABANDON THE EXISTING WATER MAIN IN ACCORDANCE WITH THE LATEST EDITION OF "RECOMMENDED STANDARDS FOR WATER WORKS".

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

NOTES:

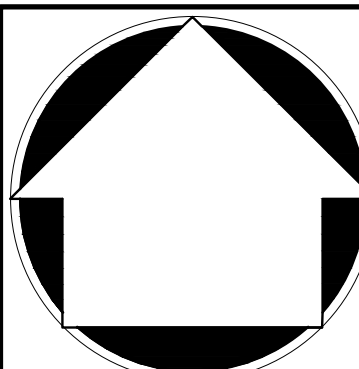
1. EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY ENTITLED, "TOPOGRAPHIC SURVEY," PREPARED BY TECTONIC ENGINEERING & SURVEYING CONSULTANTS, P.C., DATED 01/04/2011.
2. UNLESS OTHERWISE SPECIFIED, PIPE FOR STORM DRAINS SHALL BE SMOOTH WALL HIGH DENSITY POLYETHYLENE PIPE (HDPE) WITH CORRUGATED POLYETHYLENE COUPLING BANDS IN ACCORDANCE WITH AASHTO M-294. (NOT IN CONTRACT)
3. UNLESS OTHERWISE SPECIFIED, PIPE FOR SANITARY SEWER GRAVITY LINES SHALL BE POLYVINYL CHLORIDE PIPE (PVC), SDR-35, WITH PUSH-ON JOINTS IN ACCORDANCE WITH ASTM D-3034 AND D-3212.
4. UNLESS OTHERWISE SPECIFIED, PIPE FOR WATER LINES SHALL BE DOUBLE CEMENT-LINED DUCTILE IRON PIPE (DIP), CLASS 52, WITH PUSH-ON JOINTS IN ACCORDANCE WITH AWWA C-150, C-151, C-104 AND C-111.
5. CONTRACTOR SHALL CALL CODE 811 (DIGSAFETYNEWYORK.COM), AT LEAST TWO (2) FULL WORKING DAYS PRIOR TO EXCAVATION FOR ANY PROPOSED WORK, NOTIFY AND COORDINATE WITH THE UTILITY SERVICES/AUTHORITIES HAVING JURISDICTION.
6. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL DIG TEST PITS TO DETERMINE AND VERIFY THE LOCATION AND DEPTHS OF EXISTING UTILITIES AND PROVIDE INFORMATION TO JOHN MEYER CONSULTING, P.C. IF THERE ARE ANY CONFLICTS.
7. WHEN THE NEW WATER MAIN IS PUT INTO SERVICE, ALL EXISTING HYDRANTS CONNECTED TO THE OLD WATER MAIN ARE TO BE REMOVED AND EACH EXISTING HYDRANT GATE VALVE IS TO BE ABANDONED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH (WCDH) AND THE VILLAGE.
8. WHEN THE NEW SANITARY SEWER MAIN IS PUT INTO SERVICE, ALL SANITARY MANHOLES ALONG THE EXISTING MAIN SHALL BE ABANDONED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WCDH AND VILLAGE.
9. THE CONTRACTOR SHALL INSTALL EACH NEW SERVICE LINE AND CURB BOX APPROXIMATELY ONE FOOT AWAY FROM THE EXISTING SERVICE LINE AND CURB BOX. WHEN THE NEW WATER MAIN IS READY TO BE PUT IN SERVICE, THE NEW SERVICE LINES CAN BE CONNECTED INTO THE EXISTING SERVICE LINES AND EACH OLD CURB BOX SHALL THEN BE REMOVED.
10. EXISTING SANITARY SEWER SERVICE LATERAL LOCATIONS SHOWN WERE OBTAINED FROM A VIDEO CAMERA INSPECTION PERFORMED BY FRED A. COOK, JR., INC. ON 12/05/2011.
EXISTING LATERALS NOT SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
ALL PROPOSED SEWER SERVICE LATERALS SHALL BE INSTALLED WITHIN CLOSE PROXIMITY TO THE EXISTING LATERALS. WHEN THE NEW SEWER MAIN IS READY TO BE PUT IN SERVICE, THE NEW SERVICE LATERALS SHALL BE CONNECTED INTO THE EXISTING LATERALS.
THE EXISTING HOMES LOCATED AT 50, 52, 54, AND 56 FARRINGTON ROAD HAVE EXISTING SEWER LATERALS AT BROOK STREET. NO LATERALS ARE PROPOSED TO FARRINGTON ROAD FROM THESE PROPERTIES.
THE EXISTING HOMES LOCATED AT 27, 29, 31, 33 AND 35 HUNTER PLACE HAVE EXISTING SEWER LATERALS AT THE REAR OF THE HOMES. THE LOCATION OF THE PROPOSED LATERALS TO SERVE THE HOMES SHALL BE COORDINATED WITH THE VILLAGE ENGINEER.
11. DISINFECTION AND BACTERIOLOGICAL TESTING OF NEW WATER MAINS SHALL BE PERFORMED IN ACCORDANCE WITH AWWA STANDARD C-651 LATEST EDITION. THE CROTON-ON-HUDSON WATER DEPARTMENT MUST WITNESS PRESSURE TEST PERFORMED FOR EACH SECTION OF THE NEWLY INSTALLED WATER MAIN. PRESSURE AND BACTERIOLOGICAL TESTS OF EACH SECTION OF NEW WATER MAIN MUST BE ACCEPTED BY THE CROTON-ON-HUDSON WATER DEPARTMENT AND THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH PRIOR TO MAINS BEING PUT IN SERVICE.
12. ALL WATER MAIN PIPES SHALL BE TESTED BY HYDROSTATIC PRESSURE, FIFTY (50) PERCENT IN EXCESS OF THE NORMAL PSI WORKING PRESSURE BUT NOT LESS THAN 150 PSI OR MORE THAN THE DESIGN RATING OF THE PIPE OR APPURTENANCES, IN ACCORDANCE WITH AWWA SPECIFICATION C-600.
13. MINIMUM WATER MAIN DEPTH OF FOUR (4) FEET IS REQUIRED.
14. THE VILLAGE OF CROTON-ON-HUDSON, WCDH AND JMC MUST BE NOTIFIED, IN WRITING, 48 HOURS IN ADVANCE OF ANY WATER AND/OR SEWER MAIN TESTING.
15. EXFILTRATION/INFILTRATION TESTS FOR SANITARY SEWER: LEAKAGE SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY. WATER TESTS SHALL BE PERFORMED UNDER A MINIMUM POSITIVE HEAD OF 2 FEET (5 FEET FOR WCDH SEWERS). LOW PRESSURE AIR TESTING IS PERMITTED FOR PIPE LINES AND SHOULD CONFORM TO ASTM F-1417. VACUUM TESTING IS PERMITTED FOR MANHOLES PER WESTCHESTER COUNTY DEPARTMENT OF HEALTH TECHNICAL INFORMATION PAMPHLET NO. 15 (T.I.P. NO.15), BUT IS NOT PERMISSIBLE FOR PIPELINES. A 48 HOUR NOTICE SHALL BE GIVEN TO THE TOWN OF NEW CASTLE AND JMC PRIOR TO TESTING.
16. EXISTING WATER AND SEWER MAINS SHALL BE ABANDONED IN ACCORDANCE WITH RECOMMENDED STANDARDS FOR WATER WORKS AND WASTEWATER FACILITIES.
17. UPON COMPLETION AND PRIOR TO USE TWO (2) SETS OF AS-BUILT PLANS MUST BE SUBMITTED TOGETHER WITH P.E. CERTIFICATION OF CONSTRUCTION AND ACCEPTABLE RESULTS OF BACTERIOLOGICAL TESTING.
18. ANY DAMAGES TO SIDEWALKS AND OR CURBS ATTRIBUTED TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED WITH TEMPORARY ASPHALT AT THE DIRECTION OF THE VILLAGE ENGINEER.
19. APPROXIMATE LOCATION OF BEDROCK BORINGS PERFORMED BY TODD J. SYSKA, INC. SEE RESULTS DATED JULY 9, 2014 WITHIN THE PROJECT SPECIFICATIONS.

LEGEND

- EXISTING PROPERTY LINE
- ADJACENT PROPERTY LINE
- EXISTING EASEMENT LINE
- EXISTING BUILDING OVERHANG
- EXISTING BUILDING LINE
- EXISTING PAVEMENT EDGE
- EXISTING CURB LINE
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- EXISTING SPOT GRADE
- EXISTING FEATURE TO BE REMOVED
- EXISTING RETAINING WALL
- EXISTING FENCE
- EXISTING STORM DRAIN LINE AND SIZE
- EXISTING SANITARY LINE AND SIZE
- EXISTING WATER LINE
- EXISTING GAS LINE FROM SURVEY
- EXISTING OVERHEAD WIRES
- EXISTING DRAIN INLET
- EXISTING MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING GAS VALVE
- EXISTING WATER VALVE
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING SIGN
- EXISTING VEGETATION/TREE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED HYDRANT
- PROPOSED CLEANOUT
- PROPOSED SANITARY SEWER LINE
- PROPOSED WATER LINE & SIZE
- EXISTING GAS LINE FROM CON EDISON TEST PIT
- PROPOSED WATER VALVE
- PROPOSED WATER SERVICE (SEE NOTE 9)
- PROPOSED SANITARY SEWER SERVICE LINE WITH CLEAN-OUT (SEE NOTE 10)
- PROPOSED K-CRETE ENCASUREMENT
- PROPOSED THRUST BLOCK
- BORING LOCATION AND DESIGNATION (SEE NOTE 19)

**WATER & SEWER MAIN
IMPROVEMENT PLAN**

FARRINGTON ROAD IMPROVEMENTS
FARRINGTON ROAD & HUNTER PLACE
VILLAGE OF CROTON-ON-HUDSON, NEW YORK



NO.	REVISION	DATE	BY
1.	REVISED/ISSUED IN RESPONSE TO WCDH COMMENTS	01/04/2013	RC
2.	REVISED/ISSUED IN RESPONSE TO WCDH COMMENTS	08/19/2013	CTC
3.	REVISED/ISSUED IN RESPONSE TO WCDH COMMENTS	03/31/2014	DE
4.	REVISED PER CON EDISON COMMENTS	06/18/2015	DS
5.	REVISED/ISSUED IN RESPONSE TO WCDH COMMENTS	08/05/2015	DM

Previous Editions Obsolete

SCALE:	1" = 20'
DATE:	06/15/2012
PROJECT NO.:	11059
DWG. NO.:	1059-UTL-0-5-00
SUB.:	UTILITIES-A
DRAWING NO.:	23_CRADUTL

SP-2

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